



APPLICATION BRIEF

CHEMICAL SALES AND DELIVERY

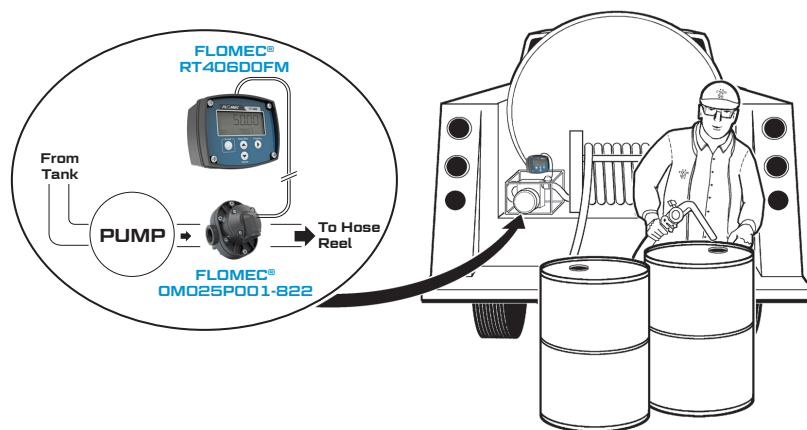
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PROJECT OVERVIEW

Chemicals are fundamental to the production of numerous everyday goods that are in high demand. The main components of these products are chemicals, such as Sulfuric Acid (H₂SO₄), Ammonia (NH₃), Sodium Hydroxide (NaOH), and Acetic Acid, to name a few. These chemicals are key components of products, from fertilizers and automotive batteries to soaps, detergents, and plastics like polyvinyl acetate. To meet this demand, manufacturers and other end-users depend on chemical distributors to sell and deliver these essential chemicals accurately.

FLOMEC® Oval Gear Flow Meters are crucial in precisely delivering chemicals. These flow meters ensure accurate measurement and are essential for selling and delivering chemicals.

In chemical delivery applications, FLOMEC® Oval Gear Flow Meters are typically installed between the pump and hose reel. This strategic placement allows for precise measurement of the chemical volume transferred to the customer, ensuring accuracy in billing and measuring the chemicals.



PRODUCT SPECIFICATIONS



OM025P001-822 1 Inch PPS, High-Accuracy Chemical Flow Meter

Flow Range:	2.6-40 GPM (10-150 L/min) @ 3cP
Accuracy:	± 0.5%
Design Type:	Oval Gear
Pressure Rating:	174 PSI (12 Bar)
Operating Temperature:	176°F (80°C) Maximum
Connection Type/Size:	NPT (Female), 1 in.
Pipe Size:	1 in.
Meter Housing Material:	PPS
Wetted Material:	FKM PPS
Warranty:	2-yr meter warranty
Approvals:	CE, NEMA 4, IP65

PRODUCT SPECIFICATIONS



RT406D0FM FLOMEC® RT40 Flow Rate Totalizer

Operating Temperature:	-22°F to 176°F (-30°C to 80°C)
Warranty:	2-yr meter warranty
Approvals:	CE, Complies with the requirements of the EMC Directive 89/336/EEC.

PRODUCT SPECIFICATIONS CONTINUED



OM025P001-826R7G
1 Inch PPS, High-Accuracy Chemical Flow Meter with RT40 Rate Totalizer

Flow Range:	2.6-40 GPM (10-150 L/min) @ 3cP
Accuracy:	± 0.5%
Design Type:	Oval Gear
Pressure Rating:	174 PSI (12 Bar)
Operating Temperature:	176°F (80°C) Maximum
Connection Type/Size:	NPT (Female), 1 in.
Pipe Size:	1 in.
Meter Housing Material:	PPS
Wetted Material:	FKM PPS
Warranty:	2-yr meter warranty
Approvals:	CE, NEMA 4, IP65

PRODUCT SOLUTION

Oval Gear Flow Meters are particularly well-suited for measuring these chemicals due to their ability to accurately measure chemicals with various viscosities, even at low flow rates. They can also be installed in tight spaces because they do not require straight pipe runs upstream or downstream of the meter. The flow meters operate on a simple yet effective principle: as liquid flows through the meter, it causes two oval-shaped gears to rotate. The rotation speed is directly proportional to the flow rate, and creates pockets of known volume fluid between the gear and wall of meter. The RT40 counts, calculates and displays these highly accurate pocket sizes for easy-to-read precise measurement.

FLOMEC® Oval Gear Flow Meters are indispensable in chemical delivery, ensuring accurate measurements. Their reliability and precision make them an excellent choice for handling chemicals.